

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 190 AND ROYAL DOMINION DRIVE IN MONTGOMERY COUNTY. MD 190 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT PHASE, SEMI-TRAFFIC-ACTUATED MODE, WITH MD 190 APPROACHES OPERATING CONCURRENTLY AND THE SIDE STREET MOVEMENTS OPERATING CONCURRENTLY. EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR E.B. AND W.B. MD 190 EXISTS AND A CONCURRENT PEDESTRIAN PHASE EXISTS ACROSS THE SOUTH LEG OF ROYAL DOMINION DRIVE AND AN ALTERNATE PEDESTRIAN PHASE EXISTS ACROSS THE EAST LEG OF MD 190. THE MODIFICATION WILL CONSIST OF SPLITTING THE SIDE STREET PHASES.

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET EXISTS.

INSTALL ONE 4-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER IN THE EXISTING BASE MOUNTED CABINET.

A-D	EXISTING 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
E-F	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
G-H	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
I-M	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC	EXISTING CABLE
LW	LOOP WIRE (NO. 14 A.W.G.)

NOTE: SPLICE LOOP WIRE TO  
EXISTING 2-CONDUCTOR  
ELECTRICAL CABLE  
(A,B,C,D) IN EXISTING  
HANDHOLE.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 5																	
1 & 5 CHANGE																	
PHASE 1 & 6																	
1 & 6 CHANGE																	
PHASE 2 & 5																	
2 & 5 CHANGE																	
PHASE 2 & 6																	
PED. CLEAR																	
2 & 6 CHANGE																	
PHASE 3																	
3 CHANGE																	
PHASE 4																	

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND  
INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE  
CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
NONE		

MR. LEE STARKLOFF	MR. RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER - TRAFFIC	ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 513-7318	(301) 513-7304

MR. AUGIE REBISH  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
(301) 513-7350

MR. RALEIGH MEDLEY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(301) 513-7304

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
(410) 787-7652

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR  
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR  
APPROVAL PRIOR TO INSTALLATION.


<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1001	LS	MAINTENANCE OF TRAFFIC
5004	40 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5005	35 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5006	40 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
8011	16 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	9 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8048	LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8059	38 LF	FURNISH AND INSTALL 4 IN. X 6 IN. WOOD SUPPORT
8068	60 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8081	540 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
8084	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	980 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8087	2140 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8088	600 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
---	1 EA	FURNISH AND INSTALL 4-CHANNEL LOOP DETECTOR AMPLIFIER
---	1 EA	FURNISH AND INSTALL R3-5(R) SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-6(L) SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R6-1(R) SIGN (36" X 12"), R1-1 SIGN (30" X 30"), AND R3-2 SIGN (24" X 24") GROUND MOUNT
---	1 EA	REMOVE EXISTING GROUND MOUNTED SIGN

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
NONE		

**T**RAFFIC **C**ONCEPTS, INC.

325 Gambrills Road  
Suite E  
Gambrills, MD 21054  
(410) 923-7101

 **MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION  
MD 190 (RIVER ROAD) AT ROYAL DOMINION DRIVE

DRAWN BY: M.HOWELL	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: J.ZAYDEL <i>AT</i> %2	S.H.A. NO.	1773C	
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.	
DATE: 10-1-02	LOG MILE: 150.9012.03	F-384	
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